



US 20140308959A1

(19) **United States**(12) **Patent Application Publication**
De Benedittis et al.(10) **Pub. No.: US 2014/0308959 A1**(43) **Pub. Date: Oct. 16, 2014**(54) **METHODS AND APPARATUS FOR
HANDOVER MANAGEMENT**(71) Applicant: **Nokia Siemens Networks Oy, (US)**(72) Inventors: **Rossella De Benedittis, Ulm (DE);
Juergen Mayer, Blaustein (DE); Sean
Kelley, Hoffman Estates, IL (US)**(73) Assignee: **Nokia Siemens Networks Oy, Espoo
(FI)**(21) Appl. No.: **13/862,833**(22) Filed: **Apr. 15, 2013****Publication Classification**(51) **Int. Cl.**
H04W 36/00 (2006.01)(52) **U.S. Cl.**CPC **H04W 36/0016** (2013.01)USPC **455/437; 455/560**

(57)

ABSTRACT

Systems and techniques for handover management between macro base stations and home base stations. Upon receiving a measurement report from a user device including a physical cell identity and frequency pair associated with a candidate handover home base station, a macro base station transmits a message to a home base station gateway to obtain cell global identifiers of specified home base stations, which may include home base stations associated with a list of physical cell identifiers and frequency pairs including the pair received in the measurement report. Upon receiving the cell global identifiers, the base station identifies a handover target and performs signaling to the user device to direct handover to the target.

